

**IN THE CLAIMS**

Please cancel claims 1-23 and amend the claims as follows:

24. (New) A golf ball having a core and a cover, wherein the golf ball is formed in a mold comprising:

first and second golf ball mold halves, each mold half having a cavity with an arcuate surface defined by at least two arcs having different center points, wherein each cavity has a degree of sphericity, and wherein the golf ball has a degree of higher sphericity greater than the degree of sphericity of each cavity.

25. (New) The golf ball of claim 24, wherein the core comprises a center of polybutadiene, and wherein the golf ball further comprises an intermediate layer disposed about the core.

26. (New) The golf ball of claim 25, wherein the intermediate layer comprises an ionomer resin.

27. (New) The golf ball of claim 24, wherein the cover comprises an ionomer.

28. (New) The golf ball of claim 24, wherein the cover comprises a thermoset polyurethane.

29. (New) The golf ball of claim 24, wherein the cover comprises a thermoplastic polyurethane.

30. (New) A golf ball having a core and a cover, wherein the golf ball is formed in a mold comprising:

first and second golf ball mold halves, each mold half having a cavity with an arcuate surface defined by at least two arcs having different center points.

31. (New) The golf ball of claim 30, wherein each mold half has a cavity with an arcuate surface defined by at least three arcs having different center points.

- 32. (New) The golf ball of claim 30, wherein the arcuate surface is larger than the golf ball.
- 33. (New) The golf ball of claim 30, wherein the arcuate surface has a first set of dimples and the golf ball has a second set of dimples.
- 34. (New) The golf ball of claim 33, wherein the first set of dimples is larger in size than the second set of dimples.
- 35. (New) The golf ball of claim 30, wherein the cover comprises thermoset polyurethane, thermoplastic polyurethane, an ionomer resin, or a combination thereof.
- 36. (New) The golf ball of claim 30, wherein the golf ball further comprises an intermediate layer.
- 37. (New) A golf ball having a core and a cover, wherein the golf ball is formed in a mold comprising:

first and second golf ball mold halves, each mold half having a cavity with an arcuate surface defined by at least three arcs having different center points, wherein each cavity has a degree of sphericity, and wherein the golf ball has a degree of higher sphericity greater than the degree of sphericity of each cavity.
- 38. (New) The golf ball of claim 37, wherein the at least three arcs comprises a first arc, a second arc, and a third arc, wherein the first arc and the third arc have radii greater than the radius of the second arc.
- 39. (New) The golf ball of claim 37, wherein the at least three arcs comprises a first arc having a first length, a second arc having a second length, and a third arc having a third length.
- 40. (New) The golf ball of claim 39, wherein the first length and the third length are greater than the second length.

41. (New) The golf ball of claim 37, wherein the golf ball further comprises an intermediate layer.

42. (New) The golf ball of claim 41, wherein the intermediate layer comprises an ionomer resin.

43. (New) The golf ball of claim 37, wherein the cover comprises a thermoset polyurethane, a thermoplastic polyurethane, an ionomer resin, or a mixture thereof.